

Title (en)

CONNECTING DEVICE WITH ENERGY ABSORBER, AND CAR BODY

Title (de)

VERBINDUNGSEINRICHTUNG MIT ENERGIEABSORBER UND WAGENKASTEN

Title (fr)

DISPOSITIF DE RACCORDEMENT COMPRENANT UN ABSORBEUR D'ÉNERGIE ET CAISSON DE WAGON

Publication

EP 3810482 B1 20230301 (DE)

Application

EP 19746000 A 20190709

Priority

- DE 102018213945 A 20180817
- EP 2019068411 W 20190709

Abstract (en)

[origin: WO2020035223A1] The invention relates to a connecting device (1) for connecting car bodies of a rail vehicle, the task of which connecting device is to provide improved absorption of energy in the event of a collision. According to the invention, a connecting device (1) is provided, comprising an outer housing (2), an inner housing (3) and an energy absorber (4) connected to the outer housing (2) and to the inner housing (3), which are arranged substantially along a common longitudinal axis. The connecting device (1) furthermore comprises a driving device (13) for connecting the connecting device (1) to a car body housing of a car body. The connecting device (1) is designed to transmit tensile forces and compressive forces along the longitudinal axis. The energy absorber (4) is designed to irreversibly deform if a predetermined pressure force along the longitudinal axis is overshoot, such that the length of the connecting device (1) along the longitudinal axis decreases and the inner housing (3) partially slides into the outer housing (2).

IPC 8 full level

B61G 9/12 (2006.01)

CPC (source: EP RU)

B61G 9/12 (2013.01 - EP RU)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2020035223 A1 20200220; CN 215663440 U 20220128; DE 102018213945 A1 20200220; EP 3810482 A1 20210428; EP 3810482 B1 20230301; ES 2945743 T3 20230706; PL 3810482 T3 20230529; RU 205881 U1 20210811

DOCDB simple family (application)

EP 2019068411 W 20190709; CN 201990000966 U 20190709; DE 102018213945 A 20180817; EP 19746000 A 20190709; ES 19746000 T 20190709; PL 19746000 T 20190709; RU 2021106730 U 20190709